

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

J.A. KEMP & CO.
Attn. Benson, John Everett
14 South Square
Gray's Inn
London WC1R 5JJ
UNITED KINGDOM

J.A. KEMP & Co.

Rec'd. 13 AUG 2004

Action by.....

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

REGISTERED MAIL

Date of mailing
(day/month/year)

05/08/2004

Applicant's or agent's file reference

N.87219B JEB

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/GB 03/05658

International filing date
(day/month/year)

23/12/2003

Applicant

OXONICA LIMITED

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within **19 months** from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within **20 months** from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority

 European Patent Office, P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Jette Christensen

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference N. 87219B JEB	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 03/05658	International filing date (day/month/year) 23/12/2003	(Earliest) Priority Date (day/month/year) 24/12/2002
Applicant OXONICA LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☒ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/05658

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K7/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K C01G C09C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, CHEM ABS Data, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/40114 A (ISIS INNOVATION (GB)); 7 June 2001 (2001-06-07) cited in the application	1-9, 11-31
Y	page 3, line 7 -page 4, line 19; claims 1-20; examples 4-6 page 6, line 5 -page 7, line 25 ---	10
X	EP 0 526 712 A (SHISEIDO CO LTD) 10 February 1993 (1993-02-10) page 29, line 41 - line 55; example 3 page 2, line 25 -page 4, line 7 page 5, line 9 - line 22 page 27, line 6 - line 20 --- -/--	1-9, 11, 14-26

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

9 June 2004

Date of mailing of the international search report

5. 08. 2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Loloiu, C

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/05658

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 09, 13 October 2000 (2000-10-13) & JP 2000 169339 A (POLA CHEM IND INC), 20 June 2000 (2000-06-20) abstract ----	1,2,8, 11, 17-19, 23,26
X	US 5 441 726 A (MITCHNICK MARK ET AL) 15 August 1995 (1995-08-15) column 7, line 29 - line 50 column 9, line 39 -column 12, line 51 ----	1-7, 11-26
A	US 5 451 252 A (ELFENTHAL LOTHAR ET AL) 19 September 1995 (1995-09-19) column 2, line 47 - line 53 column 3, line 37 -column 4, line 9 ----	1-9,31
A	WO 94/04131 A (PROCTER & GAMBLE) 3 March 1994 (1994-03-03) page 9, line 14 -page 11, line 7; claims 1-10; examples I-V ----	1-31
A	US 5 658 555 A (ASCIONE JEAN-MARC ET AL) 19 August 1997 (1997-08-19) column 2, line 37 -column 4, line 56; claims; examples 1,2 ----	1
Y	WO 99/60994 A (ISIS INNOVATION (GB)) 2 December 1999 (1999-12-02) cited in the application page 3, line 4 - line 28 page 4, line 30 -page 5, line 20 page 7, line 2 -page 8, line 22; examples 1,2 ----	10
X	DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; ONO, KAZUHISA ET AL: "Fluorescent cosmetics" retrieved from STN Database accession no. 116:180935 XP002283890 abstract & PATENT ABSTRACTS OF JAPAN vol. 016, no. 110 (C-0920), 18 March 1992 (1992-03-18) & JP 03 284613 A (SHISEIDO), 16 December 1991 (1991-12-16) abstract ----- -/--	1-3,10, 11,21, 23,26

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/05658

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATABASE WPI Section Ch, Week 199205 Derwent Publications Ltd., London, GB; Class L03, AN 1992-035278 XP002283891 & JP 03 279214 A (LION CORP), 10 December 1991 (1991-12-10) abstract</p> <p style="text-align: center;">---</p>	1,9
A	<p>EP 0 768 277 A (NIPPON CATALYTIC CHEM IND) 16 April 1997 (1997-04-16) page 2, line 12 - line 30; claims 1-9,27-36,99,105 page 5, line 36 -page 6, line 8 page 15, line 30 - line 42 page 46, line 30 -page 47, line 21</p> <p style="text-align: center;">---</p>	1-3, 10-26
A	<p>EP 1 112 964 A (SAKAI CHEMICAL INDUSTRY CO) 4 July 2001 (2001-07-04) page 2, line 43 -page 3, line 55; claims</p> <p style="text-align: center;">-----</p>	1-31

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-2(partially),3-9,11-31(partially)

A UV sunscreensing composition comprising one or more photosensitive organic compounds and a doped titanium and/or zinc oxide. The use of said doped metal oxides to reduce the loss in UV absorption of a sunscreen composition is also disclosed.

2. Claims: 1-2(partially),10,11-31(partially)

A UV sunscreensing composition comprising one or more photosensitive organic compounds and a reduced zinc oxide. The use of said reduced metal oxides to reduce the loss in UV absorption of a sunscreen composition is also disclosed.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 03/05658

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/05658

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0140114	A	07-06-2001	AU 1539601 A BR 0016090 A CN 1433382 T EP 1233930 A1 WO 0140114 A1 JP 2003515518 T US 2003138386 A1	12-06-2001 29-10-2002 30-07-2003 28-08-2002 07-06-2001 07-05-2003 24-07-2003
EP 0526712	A	10-02-1993	JP 3053667 B2 JP 4364117 A AU 1811992 A CA 2070749 A1 DE 69232454 D1 DE 69232454 T2 EP 0526712 A1 ES 2173078 T3 KR 209815 B1 US 5762915 A	19-06-2000 16-12-1992 23-12-1993 11-12-1992 11-04-2002 07-11-2002 10-02-1993 16-10-2002 15-07-1999 09-06-1998
JP 2000169339	A	20-06-2000	NONE	
US 5441726	A	15-08-1995	AU 6664594 A DE 69432871 D1 DE 69432871 T2 EP 0786982 A1 WO 9424998 A1	21-11-1994 31-07-2003 19-05-2004 06-08-1997 10-11-1994
US 5451252	A	19-09-1995	DE 4222905 A1 CA 2100224 A1 EP 0579062 A2 DE 59303420 D1	13-01-1994 12-01-1994 19-01-1994 19-09-1996
WO 9404131	A	03-03-1994	AT 158501 T AU 4781093 A CA 2142298 A1 DE 69314182 D1 DE 69314182 T2 DK 654989 T3 EP 0654989 A1 ES 2109508 T3 GR 3024775 T3 HK 1003488 A1 WO 9404131 A1 US 5783174 A	15-10-1997 15-03-1994 03-03-1994 30-10-1997 09-04-1998 27-10-1997 31-05-1995 16-01-1998 31-12-1997 30-10-1998 03-03-1994 21-07-1998
US 5658555	A	19-08-1997	FR 2720640 A1 AU 665727 B1 CA 2150772 A1 DE 69510499 D1 DE 69510499 T2 EP 0685224 A1 ES 2135673 T3 JP 2702091 B2 JP 8003027 A	08-12-1995 11-01-1996 04-12-1995 05-08-1999 28-10-1999 06-12-1995 01-11-1999 21-01-1998 09-01-1996
WO 9960994	A	02-12-1999	AU 765456 B2 AU 4273299 A EP 1079796 A1	18-09-2003 13-12-1999 07-03-2001

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/05658

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9960994 A		WO 9960994 A1	02-12-1999
		JP 2002516347 T	04-06-2002
JP 3279214 A	10-12-1991	NONE	
EP 0768277 A	16-04-1997	JP 7328421 A	19-12-1995
		JP 8060022 A	05-03-1996
		DE 69528460 D1	07-11-2002
		DE 69528460 T2	23-01-2003
		EP 0768277 A1	16-04-1997
		US 6200680 B1	13-03-2001
		DE 69531705 D1	09-10-2003
		DE 69531705 T2	18-03-2004
		EP 0893409 A1	27-01-1999
		WO 9533688 A1	14-12-1995
EP 1112964 A	04-07-2001	EP 1112964 A1	04-07-2001
		US 6660380 B1	09-12-2003
		WO 0069776 A1	23-11-2000
		JP 2001058821 A	06-03-2001